

PROTEQ™ C1U

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ C1U s a UV stabilised grade of high impact copolymer for extrusion and blow moulding applications.

PROTEQ™ C1U can also be used for outdoor applications where toughness and durability are required.

General Information			
Additive	UV Stabilizer		
Features	Copolymer		
	Durable		
	Good Toughness		
	High Impact Resistance		
Uses	Blow Molding Applications		
	Outdoor Applications		
Processing Method	Blow Molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	1.8	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	68		
Shore D, 15 sec	62		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	27.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	> 300	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	1300	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	35.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	150	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	109	°C	
1.8 MPa, Unannealed, 3.20 mm	51.0	°C	

CLTE - Flow	1.0E-4	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Ignition Temperature (1.60 mm)	550	°C	AS/NZS 60695
Injection	Nominal Value	Unit	
Drying Temperature	85.0 to 90.0	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	195 to 215	°C	
Middle Temperature	205 to 225	°C	
Front Temperature	215 to 235	°C	
Processing (Melt) Temp	220 to 270	°C	
Mold Temperature	50.0 to 80.0	°C	
Injection Pressure	60.0 to 140	MPa	
Injection Rate	Moderate		
Back Pressure	0.100 to 0.500	MPa	
Screw Speed	40 to 60	rpm	
Clamp Tonnage	3.0 to 6.0	kN/cm ²	
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		

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